

(FILE 'HOME' ENTERED AT 13:00:20 ON 23 SEP 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:00:24 ON 23 SEP 2004

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:00:45 ON 23 SEP 2004

L1 23 S CARDOSIN (10N) PLANT
L2 11 DUP REM L1 (12 DUPLICATES REMOVED)
L3 1 S L2 AND YEAST

FILE 'STNGUIDE' ENTERED AT 13:03:15 ON 23 SEP 2004

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:06:21 ON 23 SEP 2004

L4 114 S CARDOSIN
L5 1 S L4 (10N) (YEAST OR CEREVISIAE)
L6 12 S L4 AND CDNA
L7 4 DUP REM L6 (8 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 13:11:39 ON 23 SEP 2004

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:33:36 ON 23 SEP 2004

L8 1 S CYPROSIN (10N) (YEAST OR CEREVISIAE)

=>

=> d his

(FILE 'HOME' ENTERED AT 13:00:20 ON 23 SEP 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:00:24 ON 23 SEP 2004

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:00:45 ON 23 SEP 2004

L1 23 S CARDOSIN (10N) PLANT
L2 11 DUP REM L1 (12 DUPLICATES REMOVED)
L3 1 S L2 AND YEAST

FILE 'STNGUIDE' ENTERED AT 13:03:15 ON 23 SEP 2004

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 13:06:21 ON 23 SEP 2004

L4 114 S CARDOSIN
L5 1 S L4 (10N) (YEAST OR CEREVISIAE)
L6 12 S L4 AND CDNA
L7 4 DUP REM L6 (8 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 13:11:39 ON 23 SEP 2004

L7 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1997:422452 BIOSIS
DN PREV199799721655
TI A pistil-specific aspartic proteinase from cynara humilis: Purification,
characterization and **cdna** cloning.
AU Verissimo, P.; Oliveira, C.; Andrade, R.; Faro, C.; Pires, E.
CS Dep. Bioquim., Univ. Coimbra, Coimbra, Portugal
SO FASEB Journal, (1997) Vol. 11, No. 9, pp. A1401.
Meeting Info.: 17th International Congress of Biochemistry and Molecular
Biology in conjunction with the Annual Meeting of the American Society for
Biochemistry and Molecular Biology. San Francisco, California, USA. August
24-29, 1997.
CODEN: FAJOEC. ISSN: 0892-6638.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 8 Oct 1997
Last Updated on STN: 21 Nov 1997

L2 ANSWER 11 OF 11 MEDLINE on STN DUPLICATE 8
AN 1998222024 MEDLINE
DN PubMed ID: 9580380
TI Crystallisation, structure solution, and initial refinement of
plant cardosin-A.
AU Bento I; Coelho R; Frazao C; Costa J; Faro C; Verissimo P; Pires E; Cooper
J; Dauter Z; Wilson K; Carrondo M A
CS Dep. Bioquimica, Fac. Ciencias e Tecnologia, Univ. Coimbra, Portugal.
SO Advances in experimental medicine and biology, -(1998) 436 445-52. Ref: 12
Journal code: 0121103. ISSN: 0065-2598.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 199806
ED Entered STN: 19980618
Last Updated on STN: 20000303
Entered Medline: 19980608

L2 ANSWER 10 OF 11 MEDLINE on STN DUPLICATE 7
 AN 1998437630 MEDLINE
 DN PubMed ID: 9757116
 TI Crystallization and preliminary X-ray crystallographic studies of the
 plant aspartic proteinase **cardosin A**.
 AU Bento I; Frazao C; Coelho R; Wilson K; Dauter Z; Carrondo M A
 CS Instituto de Tecnologia Quimica e Biologica, Apartado 127, 2780-Oeiras,
 Portugal.
 SO Acta crystallographica. Section D, Biological crystallography, (1998 Sep
 1) 54 (Pt 5) 991-3.
 Journal code: 9305878. ISSN: 0907-4449.
 CY Denmark
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199812
 ED Entered STN: 19990115
 Last Updated on STN: 20000303
 Entered Medline: 19981214
 AB The **plant** aspartic proteinase **cardosin A** was
 crystallized using vapour diffusion. Crystals belong to the monoclinic
 space group C2, cell dimensions $a = 116.9$ (2), $b = 87.2$ (8), $c = 81.3$ (1)
 A, $\beta = 104.4$ (4) degrees, and contain two molecules in the asymmetric
 unit related by a non-crystallographic twofold axis. Diffraction data
 were collected at room temperature with radiation from a synchrotron
 source up to 2.85 A resolution. When the crystals were flash cooled to
 110 K in a nitrogen stream the same resolution limit could also be
 obtained on a rotating-anode source. Recently, synchrotron radiation
 together with flash cooling led to an improvement of the diffraction data
 to 1.72 A resolution.

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
AN 1999:738753 CAPLUS
DN 132:63377

TI On the activity and specificity of cardosin B, a plant
proteinase, on ovine caseins

AU Silva, Sofia V.; Malcata, F. Xavier

CS Escola Superior de Biotecnologia, Universidade Catolica Portuguesa,
Oporto, P-4200-072, Port.

SO Food Chemistry (1999), 67(4), 373-378

CODEN: FOCHDJ; ISSN: 0308-8146

PB Elsevier Science Ltd.

DT Journal

LA English

AB The proteolytic activity of cardosin B, an aspartic proteinase from the
thistle, *Cynara cardunculus*, on ovine α -caseins and β -caseins
(independently or present together in sodium caseinate) was followed by
urea polyacrylamide gel electrophoresis and reversed phase high
performance liquid chromatog. This enzyme degraded both types of caseins,
but not to the same degree. In sodium-caseinate, by 10 h at 30°C,
 α s-caseins were more susceptible to proteolysis by cardosin B than
 β -casein whereas, in isolated form, the reverse was observed. Sequencing
of the peptides produced by hydrolysis of Na-caseinate showed that the
major cleavage sites in α s1-casein were Leu156-Asp157 and
Trp164-Tyr165 whereas, in β -casein, they were Leu127-Thr128,
Leu165-Ser166 and Leu90-Tyr191. The bonds Trp164-Tyr165 and Leu165-Ser166
were the most susceptible to cardosin B when this enzyme acted upon
isolated α s1-and β -casein, resp.